

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/410,644	SOMMERER, RALPH	
	<b>Examiner</b>	<b>Art Unit</b>	
	Sanjiv D. Shah	2176	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/14/2004.
2. ☒ The allowed claim(s) is/are 1-3,5,7,9,10,12,14,15 and 17.
3. ☒ The drawings filed on 01 October 1999 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
|---|--|

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Anthony Del Zoppo on 1/14/05.

The application has been amended as follows:

1. (Currently amended) A computer-implemented method operable on a page of at least text comprising:

balancing the at least text on the page without forcing any of the at least text onto a previous page or a next page, wherein balancing the page comprises balancing the page on a rolling pair of lines-by-rolling pair of lines basis;

wherein balancing the page on a rolling pair of lines-by-rolling pair of lines basis comprises, for each of a series of rolling pairs of lines of the page,

determining whether a first line of the rolling pair is greater than a second line of the rolling pair in length;

upon determining that the first line of the rolling pair is greater than a second line of the rolling pair in length,

determining whether a last word of the first line would fit as a first word of the second line;

upon determining that the last word of the first line would fit as a first word of the second line,

determining whether moving the last word of the first line as the first word of the second line meets a predetermined criteria;

upon determining that moving the last word of the first line as the first word of the second line meets the predetermined criteria,

moving the last word of the first line as the first word of second line; and  
outputting the page.

5. (currently amended) The method of claim 1, wherein balancing the page on a rolling pair of lines-by-rolling pair of lines basis comprises moving a word from a first line of a rolling pair of lines to a second line of the rolling pair of lines based on a predetermined criteria.

6. (Cancelled)

7. (Currently amended) A computer-implemented method operable on a page of at least text comprising:

balancing the at least text on the page without forcing any of the at least text onto a previous page or a next page on a rolling pair of lines-by-rolling pair of lines basis, including for at least one rolling pair of lines, moving a word from first line of the rolling pair of lines to a second line of the rolling pair of lines based on a predetermined criteria;

wherein balancing the page on a rolling pair of lines-by-rolling pair of lines basis comprises, for each of a series of rolling pairs of lines of the page,

determining whether a first line of the rolling pair is greater than a second line of the rolling pair in length;

upon determining that the first line of the rolling pair is greater than a second line of the rolling pair in length,

determining whether a last word of the first line would fit as a first word of the second line;

upon determining that the last word of the first line would fit as a first word of the second line,

determining whether moving the last word of the first line as the first word of the second line meets a predetermined criteria;

upon determining that moving the last word of the first line as the first word of the second line meets the predetermined criteria,

moving the last word of the first line as the first word of second line; and  
outputting the page.

8. (Cancelled)

10. (Currently amended) A machine-readable medium having a plurality of instructions stored thereon for execution by a processor to perform a method comprising:

balancing the at least text on the page without forcing any of the at least text onto a previous page or a next page on a rolling pair of lines-by-rolling pair of lines basis, including for at least one rolling pair of lines, moving a word from first line of the rolling pair of lines to a second line of the rolling pair of lines based on a predetermined criteria;

wherein balancing the page on a rolling pair of lines-by-rolling pair of lines basis comprises, for each of a series of rolling pairs of lines of the page,

determining whether a first line of the rolling pair is greater than a second line of the rolling pair in length;

upon determining that the first line of the rolling pair is greater than a second line of the rolling pair in length,

determining whether a last word of the first line would fit as a first word of the second line;

upon determining that the last word of the first line would fit as a first word of the second line,

determining whether moving the last word of the first line as the first word of the second line meets a predetermined criteria;

upon determining that moving the last word of the first line as the first word of the second line meets the predetermined criteria,

moving the last word of the first line as the first word of second line; and  
outputting the page.

12 (Currently amended) The medium of claim 10, wherein balancing the page on a rolling pair of lines-by-rolling pair of lines basis comprises moving a word from a first line of a rolling pair of lines to a second line of the rolling pair of lines based on a predetermined criteria.

13. (Cancelled)

15. (Currently amended) An electronic device comprising:  
a memory to store a page of at least text;  
a processor to execute a program to balance the at least text on the page without forcing any of the at least text onto a previous page or a next page, the program balances the page based in part on succeeding lines of text

wherein the program is to balance the page on a rolling pair of lines-by-rolling pair of lines basis comprises, for each of a series of rolling pairs of lines of the page, determining whether a first line of the rolling pair is greater than a second line of the rolling pair in length;

upon determining that the first line of the rolling pair is greater than a second line of the rolling pair in length,

determining whether a last word of the first line would fit as a first word of the second line;

upon determining that the last word of the first line would fit as a first word of the second line,

determining whether moving the last word of the first line as the first word of the second line meets a predetermined criteria;

upon determining that moving the last word of the first line as the first word of the second line meets the predetermined criteria,

moving the last word of the first line as the first word of second line; and  
outputting the page.

17. (Currently amended) The device of claim 15, wherein the program is to balance the page on a rolling pair of lines-by-rolling pair of lines basis comprises moving a word from a first line of a rolling pair of lines to a second line of the rolling pair of lines based on a predetermined criteria.

18. (Cancelled)

19. (Cancelled)

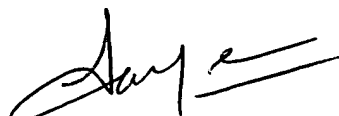
20. (Cancelled)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanjiv D. Shah whose telephone number is (571)272-4098. The examiner can normally be reached on M-F 9-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H Feild can be reached on (571)272-4090. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Sanjiv D. Shah  
Primary Examiner  
Art Unit 2176

S. Shah  
January 23, 2005